

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at MD 169 and MD 170 in Anne Arundel County. This modification involves the installation of APS on the West and North legs and installation of APS and CPS on the East leg of the intersection. MD 170 is considered to run in a North-South direction.

II. INTERSECTION OPERATION

- The intersection operates in a NEMA 4-phase, fully-actuated mode, with pushbutton activated pedestrian crossings for the East, West and North legs of the intersection.

PUSHBUTTON OPERATION

WEST LEG WAIT MESSAGE: WAIT TO CROSS WEST MAPLE AT CAMP MEADE  
WEST LEG WALK MESSAGE: RAPID TICK  
EAST LEG WAIT MESSAGE: WAIT TO CROSS CAMP MEADE AT EAST MAPLE  
EAST LEG WALK MESSAGE: RAPID TICK  
NORTH LEG WAIT MESSAGE: WAIT TO CROSS CAMP MEADE AT MAPLE  
NORTH LEG WALK MESSAGE: RAPID TICK  
SOUTH LEG WAIT MESSAGE: WAIT TO CROSS CAMP MEADE AT MAPLE  
SOUTH LEG WALK MESSAGE: RAPID TICK

NOTES

- All pavement markings shall be installed in accordance with Administration standards.
- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable.
- All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02 and MD 818.04 Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- Pushbuttons are to be located so that they can be activated by a person in a wheelchair from a 60"x 60" level landing area. A level landing area is an area with a cross slope of less than or equal to 2%.
- The 10' separation between pushbuttons is to be measured from the face of the pushbutton to the face of the pushbutton, not from the face of the pole to the face of the pole.
- The pushbuttons are to be located so that a person in a wheel chair located on the level landing area does not have to reach more than 18".
- The location of Accessible Pedestrian Signal Pushbuttons, must meet the location requirements of MUTCD Sec. 4E-09 and Figure 4E-2 and the NCHRP publication, "Accessible Pedestrian Signals: Guide To Best Practice". If not met, the contractor is to stop work on pushbutton locations until the conflict is resolved. If necessary a design waiver shall be obtained signed by the Director, Office of Traffic and Safety.
- Pushbuttons shall be installed parallel to the crosswalk for which they are intended.

CONTACTS

DISTRICT

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OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.  
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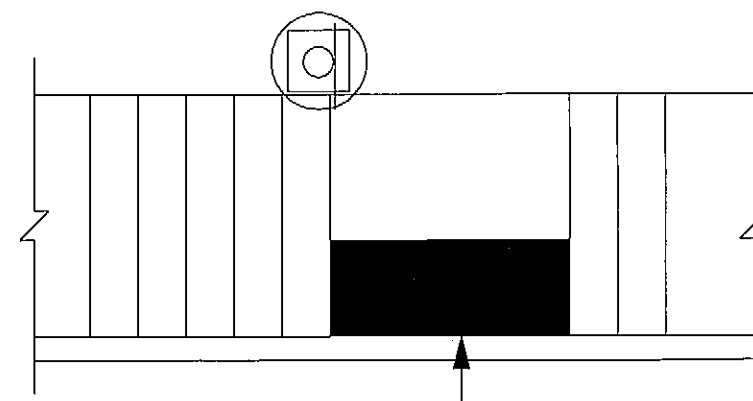
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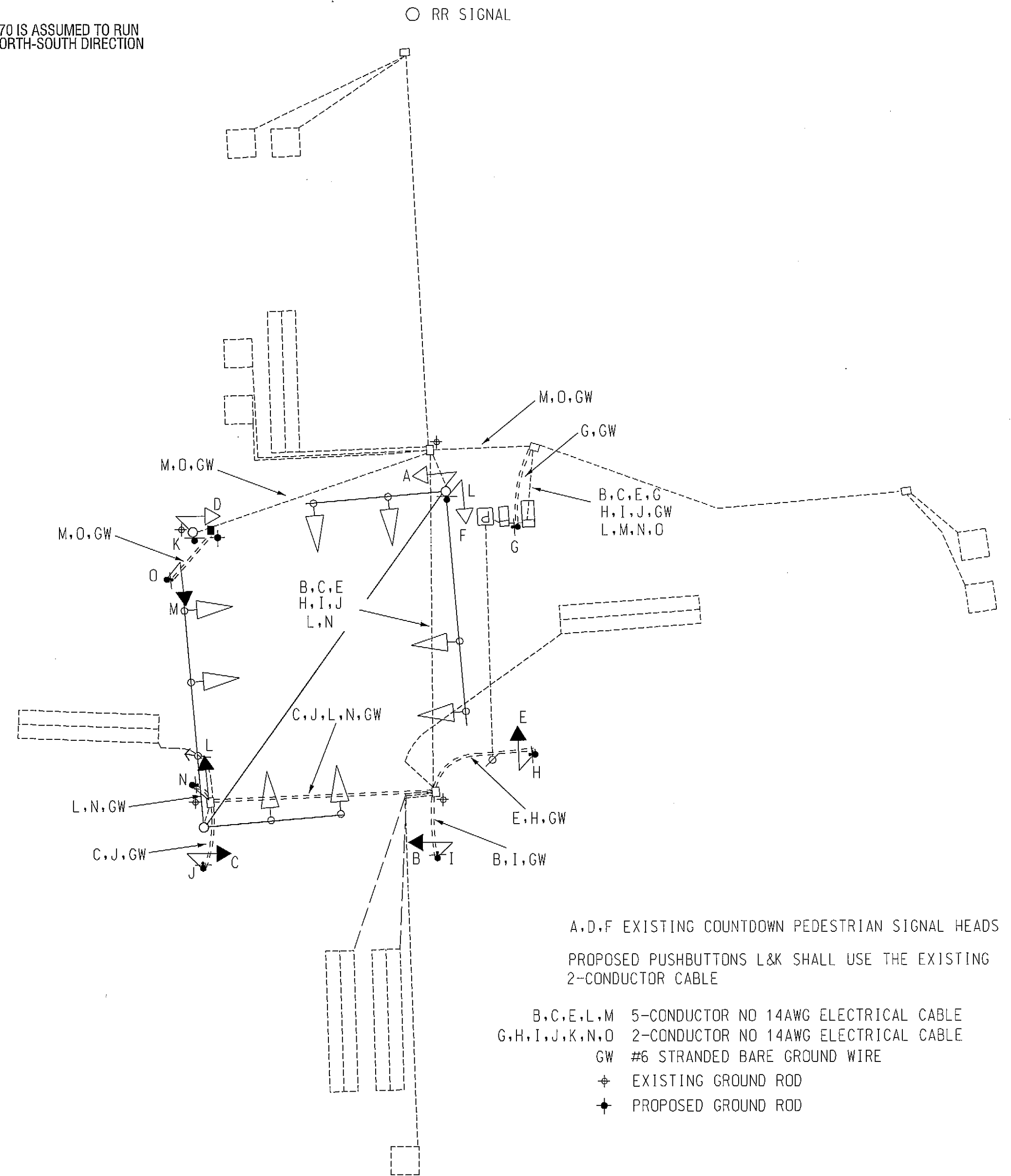
MS. DARLENE EIDE  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7668

PEDESTAL POLES TO BE LOCATED  
ON CORNER OF LANDING AREA AND SLOPE  
FOUNDATION TO BE POURED FLUSH  
AND LOCATED WITHIN SIDEWALK



DETECTABLE WARNING SURFACE

MD 170 IS ASSUMED TO RUN  
IN A NORTH-SOUTH DIRECTION



A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

|      |         |                                    |
|------|---------|------------------------------------|
| 9000 | 89.5 LF | SHEET ALUMINUM SIGN POLE MOUNTED   |
|      |         | 8 EA 36"x36" S1-1 SCHOOL SIGNS FYG |
|      |         | 4 EA 21"x15" W16-7p(L) FYG         |
|      |         | 4 EA 21"x15" W16-7p(R) FYG         |

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

| ITEM # | QUANTITY | ITEM DESCRIPTION  |
|--------|----------|---|
| 1001   | 1 EA     | MAINTENANCE OF TRAFFIC  |
| 3002   | 900 LF   | SILT FENCE  |
| 5005   | 1025 LF  | 12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS  |
| 6001   | 3 EA     | RECONSTRUCTING EXISTING SIDEWALK RAMP                               |
| 6004   | 900 LF   | STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN 8" DEPTH |
| 6005   | 3600 SF  | 5 INCH CONCRETE SIDEWALK  |
| 6006   | 90 SF    | DETECTABLE WARNING SURFACE FOR CURB RAMP                            |
| 8001   | 8 EA     | AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON                               |
| 8002   | 6 EA     | BREAKAWAY PEDESTAL POLE-ANY SIZE                                    |
| 8003   | 1 EA     | FURNISH AND INSTALL 2-WIRE CONTROL UNIT                             |
| 8005   | 8 EA     | PEDESTRIAN EDUCATION SIGN   |
| 8007   | 1 EA     | REMOVE AND DISPOSE PER ASSIGNMENT                                   |
| 8011   | 1 EA     | ADJUST EXISTING HANDHOLE  |
| 8012   | 175 LF   | NO 6 AWG STRANDED BARE COPPER GROUND WIRE                           |
| 8013   | 75 LF    | 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED                       |
| 8016   | 32 SF    | RELOCATE EXISTING GROUND MOUNTED SIGN                               |
| 8018   | 1 EA     | GROUND ROD-3/4" DIAMETER X 10' LENGTH                               |
| 8020   | 810 LF   | ELECTRICAL CABLE 2-CONDUCTOR NO 14AWG                               |
| 8021   | 785 LF   | ELECTRICAL CABLE 5-CONDUCTOR NO 14AWG                               |
| 8024   | 40 LF    | 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED                        |

A.D.F EXISTING COUNTDOWN PEDESTRIAN SIGNAL HEADS

PROPOSED PUSHBUTTONS L&K SHALL USE THE EXISTING  
2-CONDUCTOR CABLE

B.C.E.L.M 5-CONDUCTOR NO 14AWG ELECTRICAL CABLE  
G.H.I.J.K.N.O 2-CONDUCTOR NO 14AWG ELECTRICAL CABLE  
GW #6 STRANDED BARE GROUND WIRE  
+ EXISTING GROUND ROD  
+ PROPOSED GROUND ROD



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 169 (MAPLE ROAD) AT MD 170 (CAMP MEADE ROAD)

LINTHICUM, MARYLAND

GENERAL INFORMATION SHEET

SCALE: NA ADVERTISED DATE: MAY, 2010 CONTRACT NO. AA-242-501-585

DESIGNED BY: C. STRAIN COUNTY: ANNE ARUNDEL

DRAWN BY: C. STRAIN LOGMILE: 02017009.85

CHECKED BY: D. DODA TMS NO. J323

F.A.P. NO.                      TOD NO.                     

TS NO. 1608 F DRAWING      OF      SHEET NO. 3 OF 3

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